

A1

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	09/690,354
Filing Date	October 17, 2000
First Named Inventor	Risto Miikkulainen
Art Unit	242+ 2129
Examiner Name	Joseph P. Hirl
Attorney Docket Number	1039-0020

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
H	A	US- 4,839,822 A	06-13-1989	Dormond et al.	
H	B	US- 4,916,611	04-10-1990	Doyle, Jr. et al.	
H	C	US- 5,018,067	05-21-1991	Mohlenbrock et al.	
H	D	US- 5,065,315	11-12-1991	Garcia	
H	E	US- 5,070,452	12-03-1991	Doyle, Jr. et al.	
H	F	US- 5,072,383	12-10-1991	Brimm et al.	
H	G	US- 5,077,666	12-31-1991	Brimm et al.	
H	H	US- 5,101,476	03-31-1992	Kukla	
H	I	US- 5,301,105	04-05-1994	Cummings, Jr.	
H	J	US- 5,319,543	06-07-1994	Wilhelm	
H	K	US- 5,347,453	09-13-1994	Maestre	
H	L	US- 5,347,477	09-13-1994	Lee	
H	M	US- 5,361,202	11-01-1994	Doue	
H	N	US- 5,366,896	11-22-1994	Margrey et al.	
H	O	US- 5,390,238	02-14-1995	Kirk et al.	
H	P	US- 5,528,021	06-18-1996	Lassus et al.	
H	Q	US- 5,594,638	01-14-1997	Iliff	
H	R	US- 5,660,176	08-26-1997	Iliff	
H	S	US- 5,722,418	03-03-1998	Bro	

RECEIVED

AUG 18 2004

Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
H	TT	WO 2001/133378 A	05-10-2001	Levy		
H	UU	WO 2001/35376 A1	05-17-2001	Lipscher et al.		
	VV					
	WW					
	XX					
	YY					

Examiner
Signature

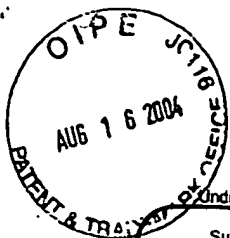
Date
Considered

7/18/5

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 4**Complete if Known**

Application Number	09/690,354
Filing Date	October 17, 2000
First Named Inventor	Risto Miikkulainen
Art Unit	2424 2129
Examiner Name	Joseph P. Hirl
Attorney Docket Number	1039-0020

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
H	AA	US- 5,737,539	04-07-1998	Edelson et al.	
H	BB	US- 5,748,907	05-05-1998	Crane	
H	CC	US- 5,769,074	06-23-1998	Barnhill et al.	
H	DD	US- 5,772,585	06-30-1998	Lavin et al.	
H	EE	US- 5,778,882	07-14-1998	Raymond et al.	
H	FF	US- 5,845,255	12-01-1998	Mayaud	
H	GG	US- 5,868,669	02-09-1999	Iliff	
H	HH	US- 5,879,163	03-09-1999	Brown et al.	
H	II	US- 5,883,370	03-16-1999	Walker et al.	
H	JJ	US- 5,924,074 A	07-13-1999	Evans	
H	KK	US- 5,946,646	08-31-1999	Schena et al.	
H	LL	US- 5,951,300	09-14-1999	Brown	
H	MM	US- 5,954,641	09-21-1999	Kehr et al.	
H	NN	US- 6,018,713	01-25-2000	Coli et al.	
H	OO	US- 6,021,202	02-01-2000	Anderson et al.	
H	PP	US- 6,024,699 A	02-15-2000	Surwit et al.	
H	QQ	US- 6,026,363 A	02-15-2000	Shepard	
H	RR	US- 6,047,259 A	04-04-2000	Campbell et al.	
H	SS	US- 6,055,333 A	04-25-2000	Guzik et al.	

RECEIVED

AUG 18 2004

Technology Center 2100

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
	TT					
	UU					
	VV					
	WW					
	XX					
	YY					

Examiner
SignatureDate
Considered

7/18/5

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 4**Complete if Known**

Application Number	09/690,354
Filing Date	October 17, 2000
First Named Inventor	Risto Miikkulainen
Art Unit	2424-2129
Examiner Name	Joseph P. Hirt
Attorney Docket Number	1039-0020

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
H	A3	US- 6,073,097 A	06-06-2000	Gould et al.	
H	B3	US- 6,073,375	06-13-2000	Fant et al.	
H	C3	US- 6,085,752	07-11-2000	Kehr et al.	
H	D3	US- 6,090,044	07-18-2000	Bishop et al.	
H	E3	US- 6,108,635	08-22-2000	Herren et al.	
H	F3	US- 6,113,540	08-05-2000	Iliff	
H	G3	US- 6,132,218 A	10-17-2000	Benja-Athon	
H	H3	US- 6,209,095 B1	03-27-2001	Anderson et al.	
H	I3	US- 6,248,063 B1	06-19-2001	Barnhill et al.	
H	J3	US- 6,298,348 B1	10-02-2001	Eldering	
H	K3	US- 6,317,789	11-13-2001	Rakavy et al.	
H	L3	US- 6,385,592	05-07-2002	Angles et al.	
H	M3	US- 6,609,200 B2	08-19-2003	Anderson et al.	
H	N3	US- 6,678,669 B2	01-13-2004	Lapointe et al.	
H	O3	US- 2001/0023419 A1	09-20-2001	Lapointe et al.	
H	P3	US- 2001/0032099 A1	10-18-2001	Joao	
H	Q3	US- 2002/0049612 A1	04-25-2002	Jaeger et al.	
H	R3	US- 4,858,121	08-15-1989	Barber et al.	
H	S3	US- 5,992,890	11-30-1999	Simcox	

RECEIVED

AUG 18 2004

Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	TT					
	UU					
	VV					
	WW					
	XX					
	YY					

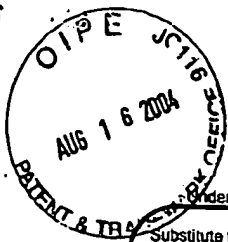
Examiner
SignatureDate
Considered

7/19/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/088 (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4

of 4

Complete if Known

Application Number	09/690,354
Filing Date	October 17, 2000
First Named Inventor	Risto Miikkulainen
Art Unit	2424 2129
Examiner Name	Joseph P. Hirl
Attorney Docket Number	1039-0020

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
K	A3	GORZALCZANY, M. B.; GRADZKI, P., Computational intelligence in medical decision support a comparison of two neuro-fuzzy systems, Industrial Electronics, 1999. ISIE '99. Proceedings of the IEEE International Symposium on, Volume:1, 1999, Page(s): 408-413, vol. 1.	
	B3		
	C3		
	D3		
	E3		
	F3		
	G3		
	H3		
	I3		
	J3		

RECEIVED

AUG 18 2004

Technology Center 2100

Examiner Signature		Date Considered	7/19/05
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.